

For equipment/debris removal and other deactivation operations in the 324 Bldg, a robotic work platform will be deployed (suspended) from an overhead crane in the B- Cell. It will be designed to operate with a variety of end effectors, including shears, cutoff saws, decontamination spray heads and detectors for characterization. The work platform will be modular and easily repairable, and will utilize on- board lighting and video.



# **Application:**

To meet cleanup requirements at the 324 Building at the Hanford Site, there is a need to deploy systems that provide:

- more rapid and remote size-reduction
- debris collection and removal
- characterization
- decontamination

### **Benefits:**

- full reach capabilities that significantly accelerate work tasks
- eliminate the need for multiple, specialized tool design and procurement
- reduce worker exposure and secondary waste generation



#### **Site Needs Addressed:**

- RL-DD05 Characterization of Buildings 324 and 327
- RL-DD06 Decontamination of Buildings 324 and 327
- RL-DD07 Fixatives for Buildings 324 and 327
- RL-DD08 Remote Cutting Technologies for Buildings 324 and 327
- RL-DD10 Radiation Hardened Robotics for Building 324
- RL-DD11 Structural Integrity Inspection Technologies 324/327 Buildings Hot Cell Liners

# Planned Funding Profile (in K's of dollars)

Cost Item	FY 1999	FY 2000	FY 2001	<b>Total Cost</b>
ASTD Funding	1,545	0	0	1,545
324 'B Cell' Project Funding	56	284	2,165	2,505
Total Project Cost	1,601	284	2165	4,050

Minimum Projected Cost Savings is estimated at \$2.8 million



### **Proposed Schedule:**

- Issue Request for Proposal
- Award Contract
- Fabrication/Assembly of System
- Personnel Training and Qualification
- Cold Testing and Evaluation
- Deployment in B-Cell

### **Planned Schedule**

**July 1999** 

October 1999

November 1999 - July 2000

January 2000 - September 2000

May 2000 - July 2000

October 2000

#### **Points of Contact:**

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